



INDUSTRIAL RANGE

1 MAIN FEATURES

T Triphasic
 Diesel fuel
 Baudouin / 6M16G220/5
 Grupel / 274GB200
 / 4520

Hz 50Hz
 1500 r.p.m.
 V 400V
 cos φ 0,8

Standby power (STP)	220 kVA	176 kW
Prime Power (PRP)	200 kVA	160 kW
Power Continuous (COP)	- kVA	- kW

OPEN SKID

Length (L)	3100 mm
Height (H)	1980 mm
Width(W)	1153 mm
Weight	2004 kg
Daily tank	350 L



50Hz

Acoustic pressure level @1m

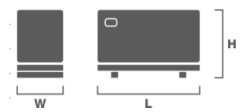
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Acoustic pressure level @7m

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SOUNDPROOF

Length (L)	3400 mm
Height (H)	1780 mm
Width (W)	1153 mm
Weight	2554 kg
Daily tank	350 L



50Hz

Acoustic pressure level @1m

80 dB(A)

Acoustic pressure level @7m

69 dB(A)

AVAILABLE VOLTAGES - 50Hz

FP (cos Ø)	Phase	Voltage	COP (kVA/kW)	PRP (kVA/kW)	STP (kVA/kW)	Circuit breaker (A)
0,8	Three-phase	440	- / -	190 / 152	210 / 168	250
0,8	Three-phase	415	- / -	200 / 160	220 / 176	400
0,8	Three-phase	400	- / -	200 / 160	220 / 176	400
0,8	Three-phase	380	- / -	200 / 160	220 / 176	400
0,8	Three-phase	240	- / -	200 / 160	220 / 176	630
0,8	Three-phase	230	- / -	200 / 160	220 / 176	630
0,8	Three-phase	220	- / -	190 / 152	210 / 168	630
0,8	Single phase	240	- / -	120 / 96	131 / 105	630
1	Single phase	240	- / -	96 / 96	106 / 106	400
0,8	Single phase	230	- / -	120 / 96	131 / 105	630
1	Single phase	230	- / -	96 / 96	106 / 106	630
0,8	Single phase	220	- / -	120 / 96	131 / 105	630
1	Single phase	220	- / -	96 / 96	106 / 106	630

2 ROOM INSTALLATION

EXHAUST SYSTEM	50 Hz		
	COP	PRP	STP
Exhaust gas temperature (°C)	-	-	600
Exhaust gas flow (m³/min)	-	36,02	38,15
Evacuated Heat (kW)	-	122,1	135
Maximum back pressure (kPa)		6,5	
Exhaust silencer attenuation (dB)		30	
Output Diameter (mm)		90	

VENTILATION SYSTEMS	50 Hz		
	COP	PRP	STP
Combustion air flow (m³/min)	-	13,2	14,2
Cooling airflow (m³/min)		415	
Maximum load losses (Pa)		150	
RADIATION	50 Hz		
	COP	PRP	STP
Engine (kW)	-	-	-
Alternator (kW) 50	10,7	10,7	11,8

3 ENGINE SPECIFICATIONS

GENERAL SPECIFICATIONS	50 Hz
Model	6M16G220/5
Emissions	Not satisfy 97/68/EC
Performance grade	G2
Operating method	Four stroke
Fuel type	Diesel fuel
Refrigeration system	Water/antifreeze Closed Circuit
Aspiration system	Turbocharged
Injection system	Direct
No. and Cylinder arrangement	6 In-Line
Displacement (L)	9,726
Cylinder bore (mm)	126
Cylinder stroke (mm)	130
Compression Ratio	17:1
Regulation	Electronic
Rotation speed	1500
Piston Speed (m/s)	6,5
Gross power COP (kWm)	-
Gross power PRP (kWm)	182
Gross power STP (kWm)	200
Fan power (kWm)	6
Net Power COP (kWm)	-
Net Power PRP (kWm)	176
Net Power STP (kWm)	194
BMEP COP (kPa)	-
BMEP PRP (kPa)	1497
BMEP STP (kPa)	1645



CONSUMPTION		50 Hz	
Fuel consumption	LOAD	lt/h	g/kWh
STP	100%	46,3	193
	100%	42,1	193,8
	75%	31,6	193,9
PRP	50%	21,9	201,6
	100%	-	-
	75%	-	-
COP	50%	-	-

Oil consumption < 0,2% of fuel consumption

REFERENCE CONDITIONS	
Temperature (°C)	25
Atmospheric pressure (kPa)	100
CAPACITY	
Coolant (L)	44
Oil (L)	30
STARTING SYSTEM	
Voltage (V)	24
Power (kW)	5.4
Battery (Ah)	155

4 ALTERNATOR SPECIFICATIONS

GENERAL SPECIFICATIONS	
Model	274GB200
Phases No.	Triphasic
Protection	IP23
Insulation	H
Temperature Rise	H
50Hz R.F.I. telephone interference	THF<2%
60Hz R.F.I. telephone interference	TIF<50
R.F.I. Suppression	BS EN 61000-6-2 /6-4, VDE 0875G, VDE 0875N.
Coupling	Semi-Flexible
Support	Single bearing



Wave form distortion with no load	< 1,5%
Wave form distortion with balanced linear load	< 5%
Winding Leads	12
Excitation (standard / option)	Self-excited / PMG
AVR Model (standard / option)	SX460/ MX341
Voltage Regulation (standard / option)	± 1,0%/ ± 0,5%



INDUSTRIAL RANGE

RATED POWER - 50Hz

FP (cos Ø)	Phase	Voltage (V)	Power		Efficiency		
			PRP/STP (kVA)	PRP/STP (%)	Xd	X'd	X''d
0,8	Three-phase	440	190 / 210	93,8 / 93,8	1,910	0,160	0,110
0,8	Three-phase	415	200 / 220	93,6 / 93,6	1,910	0,160	0,110
0,8	Three-phase	400	200 / 220	93,3 / 93,3	1,910	0,160	0,110
0,8	Three-phase	380	200 / 220	93,0 / 93,0	1,910	0,160	0,110
0,8	Three-phase	240	200 / 220	93,6 / 93,6	1,910	0,160	0,110
0,8	Three-phase	230	200 / 220	93,3 / 93,3	1,910	0,160	0,110
0,8	Three-phase	220	190 / 210	93,8 / 93,8	1,910	0,160	0,110
0,8	Single phase	240	120 / 131	92,9 / 92,9	1,910	0,160	0,110
1	Single phase	240	120 / 132	92,9 / 92,9	1,910	0,160	0,110
0,8	Single phase	230	120 / 131	92,9 / 92,9	1,910	0,160	0,110
1	Single phase	230	120 / 132	92,9 / 92,9	1,910	0,160	0,110
0,8	Single phase	220	120 / 131	92,9 / 92,9	1,910	0,160	0,110
1	Single phase	220	120 / 132	92,9 / 92,9	1,910	0,160	0,110

5 CONTROL PANEL



GENSET	DEEPSEA 4520	OPTIONAL
Voltage (Ph-Ph / Ph-N)	• / •	• / •
Current intensity	•	•
Frequency	•	•
RMS values	•	•
Generator phase sequence	-	o
Generator earth current [a]	-	o
No. of registers events	15	250
Real time clock	•	•
PIN protection	•	•
kWh, kVAh, kVAh, kVAh, cos Ø	•	•
Synchroscope (m)	-	o
Nº of available outputs [b]	2	6
Engine run hours	•	•
Indication of alarms on LCD	•	•
Total no. of LED indicators	3	12
No. of LED alarms	-	4
Sound signalling alarms	•	•
Scheduler	•	•
Fuel Level	•	•

Electrical network	DEEPSEA 4520	OPTIONAL
Voltage (Ph-Ph / Ph-N)	• / •	• / •
Current intensity [a]	-	o
Frequency	•	•
kVA, kW, cos Ø (a)	-	o
Inversion control between main-group	-	o
Protections and Alarms	DEEPSEA 4520	OPTIONAL
High / low battery voltage	A	o
Failure in Battery Charge Alternator	A	o
Failure to stop	A/S	A/S
Failure to start	A/S	A/S
Low fuel level	A/S	A/S
Overload	A/S	A/S
Earth leakage	-	o
Asymmetry between phases	-	o
Maintenance	A/S	A/S
High / Low generator frequency	A/S	A/S
Engine overspeed	A/S	A/S
Engine underspeed	A/S	A/S
Generator overvoltage	A/S	A/S
Generator undervoltage	A/S	A/S
ECU Alert (if applicable)	A/S	A/S
Low oil pressure	A/S	A/S
Low level of radiator water [f]	A/S	A/S
Engine high temperature	A/S	A/S
Fuel leakage/ theft	-	o

6 CONTROL PANEL

Engine	DEEPSEA 4520	OPTIONAL
Engine Speed	•	•
Low oil pressure protection	•	•
Oil pressure reading [c]	o	o
High temperature engine protection	•	•
Engine temperature reading [c]	o	o
Engine battery voltage	•	•
Intensity of the engine battery [d]	o	o
Fuel Consumption [e]	•	•
Low level of radiator water [f]	o	o
Engine maintenance scheduled	•	•
Communication	DEEPSEA 4520	OPTIONAL
USB female type B plug (Max. 6m) [g]	•	•
USB female type A plug (n)	-	o
RS232 port (Max. 15m) (n)	-	o
RS485 port (Max. 1,2Km) [h]	-	o
Ethernet port RJ45 [i]	o	o
GSM and/or GPS [j]	o	o
ModBus RTU protocol [h]	-	o
ModBus TCP protocol [i]	-	o
SNMP protocol [l]	o	o
CAN port (Max. 40m)	•	•
MSC port (Max. 240m) (m)	-	o
PLC functionality	-	o

Applications	DEEPSEA 4520	OPTIONAL
Automatic or manual starting	•	•
Remote start by NO dry contact	•	•
Automatic by mains failure	•	•
Alternating with timesharing	-	o
Multi-generators synchronization and load sharing (Max. 32 generators) (m)	-	o
Generator-Main in synchronism and load sharing (1 generator and 1 main) (m)	-	o
Optional expansions	DEEPSEA 4520	OPTIONAL
DSE2130 (8 inputs dig.) IG-IOM (8 in/outputs dig. + 4 inputs anal.) G-08 (8 inputs dig.)	-	o
DSE2157 I-RB8 G-06 (8 relay outputs)	-	o
DSE890 IL-NT-GPRS G-GSM (GSM and/or GPS)	•	•
DSE891 IB-LITE G-ETH (ethernet module)	•	•
DSE892 IB-LITE - (ethernet module according SNMP protocol)	•	•
DSE2548 IGL-RA15 - (expansion with 8 additional LEDs)	-	o
DSE2510 / 20 (mirror controller, maximum distance 1km)	-	o
Standards		
Working temperature	-30 -> 70°C	
Protection index (when assembled with sealing gasket)	IP65	
Degree of humidity (during 48hr)	93% / 40°C	

Legend

•	Available
o	Optional
-	Not available
A	Warning Alarm
S	Stop alarm
[a]	Need additional CT
[b]	No. of outputs available for standard configuration. The outputs do not include relays and additional terminal connections.
[c]	If the information is not provided by the engine-ECU, you need an additional sensor

[d]	Needs additional ammeter
[e]	If information provided by the engine ECU
[f]	Required additional sensor
[g]	Requires the addition of the IL-NT-S-USB module
[h]	Requires the addition of the IL-NT-RS232-485 module
[i]	DeepSea: Requires the addition of the DSE891 module/ ComAp: Requires the addition of the IB-LITE module
[j]	DeepSea: Requires the addition of the DSE890 module/ ComAp: Requires the addition of the IL-NT-GPRS module
[l]	DeepSea: Requires the addition of the DSE892 module/ ComAp: Requires the addition of the IB-LITE module

Indicative weights and dimensions. Reference ambient conditions: 100kPa, 25°C, 30% relative humidity and fuel temperature below 40°C. Power in accordance with ISO 8528: Continuous power (PRP): Maximum available power to feed a variable electrical load for an unlimited period. The average of load factor in 24h of operation, shall not exceed 70% of the PRP. Admits 10% of overload during the maximum period of 1h every 12h of operation. The operation under overload shall not exceed 25h/year. Emergency Power (STP): Maximum available power to feed variable electrical load for a maximum period of 200h/year. The average of load factor in 24h of operation shall not exceed 70% of the STP. No overload. These specifications are subject to change without notice.

Distribuidor